

Any Curtailment of Main-

land Imports From War

Big Pala Mill a Model Where Authority Sees No Chance For War Necessities Call For Small Labor-Saving Machinery Reduces Payrolls

Labor efficiency, or rather the utiliza-tion of labor-raving muchinery that re-duces the human element to an almost irreduceible minimum, has been worked point in the oversen shipping situation, out to the fullest extent in the factory of Maui Agricultural Company at Pain. of the United States on the side of the Visitors to this sugar mill are sur-prised at the small number of men. out to the fullest extent in the factory of Mani Agricultural Company at Paia. Visitors to this sugar mill are surprised at the small number of men seen about such a large plant. The various pieces of equipment about the plant appear to have been descrited by

appear to have been deserted by orce of employes.

P. Foster, superintendent, and J. sche, chief engineer of Pain mill, constant attention to this factor of "labor efficiency" and are always on the afort for new methods by which the dependence on laborers in the mill can be cut further. Results of this nystem have shown it to be a signal

e and the clarification system.

ags of raw sugar. matic Unloaders the commencement

the anleading equipment are easily able to keep a continuous stream of came on the carrior feeding the big eighteen roller milk. The ordinary system of drawing the cars forward by cable is used but in addition brakes musaured to catch the various sizes of cars are set in the ground. These automatically eatch the car and hold it in the required position for the Wicks unloaders as the car moves forward. Then without further attention machinary moves the empty cars forward, aligns it onto a moveable track that automatically earries it aside and shuntuit back onto another track.

What the future may bring forth he so far as the full of 1917 and early 1918 may be concerned I can only say that I have econcerned I can only say that I have every belief that this government, working through the agencies of the Shipping Board and the Council of National Defense, will provide adequately for the free movement of the next Cuban crop to this country and from other West Indian points.

"The Porto Rican situation presents some present difficulties, inasmuch as one local steamship company operating to this island has canceled its contracts with the planters and sugar stocks are pilling up there to a larger degree than

ON WAILUKU FIELDS

Layee areas of Wailuku plantation is nelli-cultivated and Enrested with his track left on the delig. This experimental work carried on by Manage Penhallow is probably as extensive in Wailuku plantation as on any other regarded plantation in the lained. During 1915 and 1916 the area of the fields is which the track was left totalled. 360 areas and this year the track in leing left on more than 1000 acros. Manager Penhallow believes that the spense of handling the fields with eretained track is about the same although the harvesting of a field on which the track is to be left is more spensive than on burned off fields. The method that has been found test practice on Wailuku is to pull the at practise on Walluku is to pull the

tion to a degree that has called for

tion to a degree that has called for engeral analysis of both present and future prospects relative to the movement of a tonnage equal to three-quarters of the total annual sugar supply received normally in this country.

Disputes Alarmita Reports

Commenting on this first phase of the situation, namely the immediate prospects, a prominent stemmship man engaged in the movement of sugar shipments to the United States has made the following statement to Facts About Sugar:

About Sugar:

About Sugar:

"It is antural in view of the wide publicity given to oversea shipping to orditions as now existing that sugar produceds in Cuba, Hawaii, Porto Rico, the Philippines and as well as all produced for every day's labor paid for.

The factory has produced 1.35 tons of the factory has produced 1.55 tons sugar for every day's labor paid to the alarmist reports that have been circulated relative to the immediate movement of their sugar crops.

For the 1916 grinding season, the figures were: 11.63 tons of case for every day's labor.

Following are illustrations of how few men are needed at Pain mill each twelve shour shift:

Four men attend to all the case unloading, one on the weighing and three handling the unloading machinery, doing the work by means of automatic apparatus that if formerly took seven men to do.

Six men operate the nighteen roller mill. sixty-five cents for the north side and seventy-five cents for the south side are unquestionably high, in view of the fact that in addition high war insur-ance rates are assessed thereto, it must and the clarification system.
I men aftend to the evaporation graining.

men are sufficient to do the weighing, sewing and pilling of men are sufficient to do the weighing, sewing and pilling of in themselves cannot be rated as detri-

mental to the interests of American consumers and the American sugar trade. Sufficient Tonnage Available

is most impressed by the amount bor flore by a minimum of mea. The automatic apparatus leaves also to the laborers than the ing of levers and the release of ling pins and bolts. With phe watching the scales, the three on several months to come. What the future may bring forth in so far as the arop at comparatively low rates for several months to come. What the future may bring forth in so far as the

allies it onto a moveable track that age to this island has canceled its contracts back onto another track.

Four Men To A Floor

Another striking illustration of the system of labor efficiency is on the floor where is attended the clarification system. In charge of the four men on this floor is liming southment, the six tanks of the costignous settling system, five juice heaters and the quadruple effect evaporators.

Automatic steam pressure guages control the four evaporators.

On this committee are also Frank C Mauson of the Munson Steamship like, and M. Bull, of A. H. Bull and Company. Both of these astemship men are concerned largely in their shall be a superintender of the seam sugar trade for sugar trade for sugar from the sugar rade for sugar from the sugar trade feeling any alarm over future happenings even if they may represent grave inflitury and may find the feeling of the four sugar trade feeling any alarm over future happenings even if they may represent grave inflictive and sugar trade feeling any alarm over future happenings even if they may represent grave inflictive and sugar trade feeling and principles.

These small tubes serv

years to come adequately to handle sup-

CUBANS RUN TRACTORS WITH ALCOHOL FUEL

The theory advanced by many ex-perts that alcohol will be the motor fuel of the future is supported by a statement recently made by an official of a large tractor corporation.

He told the Mid West section of the Society of Automobile Engineers that ontil war conditions made it impossible all of his company's tractors in Cuba were operating on alcohol which was made by the individual sogar planters, from their refuse at a cost of approximations. mately eight cents per galles, as com-pared with something like ten times that cost for gasoline; that no changes

Export Charge Amounting To Eighty Cents a Ton

SANTIAGO DE LAS VEGAS, April 26 Several mills in Camaguey and Oriente, located along the raffrond don ente, located along the railroad con-necting Santa Chra and Smitinge le Cuba, are said to be nearing the end of their grinding season and facing lorge output reductions from earlier designates. There was no damage done to the machinery of these mills, according to the reports received here, and too losses sustained by these centrals have been confined to the fields, stores, mil-roads and dwellings.

President Menocal has just signed a governmental decree advancing \$1,000;

overnmental decree advancing \$1.000; an treasury for the purpose of pantian, the company to commence the repairs on its track and rolling stock which are made necessary by the damage inflicted during the recent revolution. The gov-ernment recognizes that it will eventualby have to pay for the damages this rail-road has sustained and the loss is really an advance payment on account of the indemnity that will undoubtedly be

Repairs to Be Rushed as possible in order that the govern-ment may be able shortly to move its troops and supplies through the cast-ern provinces should military develop-ments require such action. It is also forceen that the United States may need adequate transportation facilities in Cuba in connection with moving sup-plies to its naval station at Guanta-

The operations of the rebels at pres-ent seems to be largely confined to the province of Camaguey. Semi-official in-formation obtainable indicates that there are still eight bands of rebels in the field in that section. Only two of these bands have any great following. Further information from the same Further information from the same source is to the effect that the government is concentrating large bodies of troops for the purpose of pushing an aggressive pursuit of these few remeining guerrilla bodies and thereby putting an end to the last remaining sparks of the revolution. Many Grave Problems Ahead

steps taken to crush it which has been so acute during the past two months is giving place to perhaps a greater interest in the readjustment of national economic policies made necessary by the entry of Cuba into the war. grave problems confront the Cuban con-gress which is new in session, and the country is anxiously awaiting their be ing solved.

President Menocal has presented a special message to that body covering many of these problems. The greatest interest locally centers in his recommendation relating to the authorizing of a \$30,000,000 bond issue first, for the purpose of paying the indemnities arising from the recent internal disturbances, and secondly to enable the government to perform satisfactorily its larger du-ties as an ally of the United States and

the European Estents.

The president in his message says:
"Cuba is no lukewarm ally which rejects sacrifices and begrudges efforts to aid the common cause, but proposes to do her duty in any circumstances that

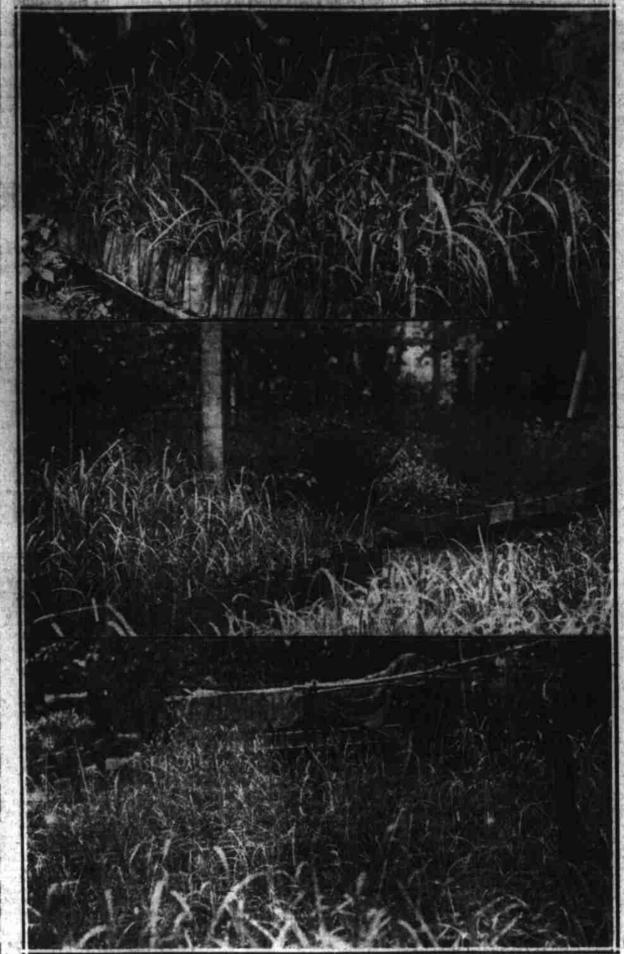
Many New Taxes Planned He recommends the immediate us of bonds to the extent of thirty million dollars, bearing interest not to exceed six per cent, amortization of which should begin immediately after the con clusion of the European war. To pro-vide for the payment of the interest on this bond issue, and later the amortization of the debt, he recommends many new taxes, such as a stamp tax on all stock exchange certificates, on all receipts, commercial paper, rentage, con-tracts, insurance policies and all public documents. The most important of these tax recommendations, in so far as the sugar interests are concerned, is that a special export tax be levied on all sugar, amounting to four cents for each one hundred pounds, equivalent to planted eighty cents per ordinary top. This Here tax, it is estimated, would raise a reve-Several attempts have been made in

recent years to place a direct tax on sugar, but the sugar planters have always fought the proposition on the ground that it would be a discriminating fax and that any successful attempt of this kind, even though very innocent of this kind, even though very innocent looking and harmless at first, would easily lead to abuse. The planters have also always claimed that they already bear in a substantial measure their proportion of the taxes necessary to support the government and that new sources of revenue should be sought from other interests. Special circumstances, however, call for special action, and in national emergencies generally bring about a right about face in opinious held, so that no objections to the tax on the part of the sugar interests tax on the part of the sugar interests

consideration of its consequence. A faappointed, which will regulate both the supply and sale of all fonds, whether

were necessary in the engine except the fact that core carbaretor foots the increase of compression to about could not be used because the alcohol ninety-five pounds per square inch and ate up the shellac.

SOME of the extensive cane seedling beds being cultivated at the nursery on the Wailuku Sugar Company's land, where the Hawaiian sugar planters' experiment station is carrying on exhaustive work in the development of Hawaiian seed ings. The upper photograph shows a corner of the nursery and a fine crop of young Lahaina cane plants, started last December. The middle photograph shows a part of the forest nursery for the propagation of trees, which is also carried on, and the lower photograph gives a general view of the cane seedlings, showing the large number that have been propagated and their healthy growth.



Securing New Seed Cane a Devious Task Extensive Work In Progress At Wailuku

Here H. B. Penballow, manager of the plantation, is continuing the forest tain moisture and purtly shut off the boxes of soil and sprinkled twice a nursery which has been excefully developed to the last ten years. During this Code period that the forest nursery has been in operation, nearly 150,000 trees have been planted on the lands of the plantation, all of the young trees having

been grown at the nursery. Painstaking and patient work is required in the propagation of the cane seedlings and each step in the work is given definite care and watching to speure sutlafactory results. Collecting the Seed

Cane tassels are picked about month after they open when the tax-sels are full, ripe and starting to blow. The tassels are placed in cloth bags and hung up to dry for a few days. Each bag is marked showing the variety, phastation, by number, date gicked. have been reported so far.

Food Control Board Appointed

Another legislative measure recently sadopted shows that the Cabar government has not entered the war in any lightness of manner or without a proper dried. hind of weather and the variety

> men al decree has been promulgated establishing a maximum price on certain foods will be controlled in this manner.

Extensive work is being carried on the this senson by the staff of the sugar planters' experiment station in the propagation of cane seedlings. One of the largest of this series of experiments is tocated at Wailuku Engar Company, where some 15,000 seedlings have been planted.

When ready for planting, the fuzz, first they should be protected from the hot sum and should be allowed not more than three hours of direct sunlight a quarter of an inch or less, over the surface of a rich mixture of soil about two inches deep in a small wooden tray. The blanket of fuzz is carefully press, and spread, to a depth of a quarter of an inch or less, over the surface of a rich mixture of soil about two inches deep in a small wooden tray. The blanket of fuzz is carefully press, ed down to the soil and aprinkled with plants appear, they are water and painted glass or a cloth. As the small plants appear, they are frame is set up over the boxes to re- picked out and transplanted into new

> Oure and Attention The work is now one of constant care

and attention with several transplantings and if out of 15,000 seedlings grown in a season, the cultivator se-cures two or three good canes, he may consider himself in luck.

ed are marked for identification and record with the date of planting, the variety planted, the kind of soil, etc. There is no set rule as to the mixare of soil though it is recommended that, if possible, all sail for seedling different sets of individual pots. that, it possible, all sait for seeming different sets of individual potations should be sterilized. This tends in prevents to prevent damping off and prevents for solve the matter of expense in growth of weeds in seed boxes. Sterligation, however, is not absolutely individual puts for the young plants,

Testing Various Soils

the kinds of rich mixtures of soil are required shape and size and serves just being tried by the experiment station as well as a clay pot. Old newspapers and size and serves just being tried by the experiment station as well as a clay pot. Old newspapers are used for this purpose in making the continuous first and in this reading propagation work, are also used for this purpose in making the continuous first and and the plants are ten inches or continuous first and in the country or imported if possible with vegetable mould. A more in height, they are significantly for that end a govern
trouble of the mixtures of soil are required shape and size and serves just as a clay pot. Old newspapers are used for this purpose in making the continuous first and the con

As the small plants appear, they are day with a fine spray. Ordinarily, the first transplating takes place when the plants are about four inches in height but they may be left lauger if they are

growing strong.
As the plants grow larger, they are The boxes in which the fuzz is plant the plants have been making better progress than others and the practise followed is to classify the plants as their size. The three selections are transplanted in different loxes or into

the experiment station staff is using a tarred paper which is folded into the All kinds of rich mixtures of soil are required shape and size and serves just

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New York Buyers Waiting To See What Events Will Bring Forth Before Venturing

Nothing of particular bearing on the

market has developed during this week,

reports the New York correspondent of local sugar house, under date of May Refiners have done nearly all the buying that has been reported, and prices have rauged from 5 3-16c to 5 1-4e C. & F. for Cubna, while Porto Ricos have fluctuated between 6.08c and 6 3-16c C. I. F. A sale today of Cubas to the American for their Phila-delphia refinery was made at 5 1-4c. C. & P. for 6500 bugs, but an unsold cargo & F. for 6600 bugs, but an unsold cargo of Porto Ricos is pearby and its sule being urgent a price of 6.08c C. I. F. is thought possible. These periodic sales of "distressed" sugars are inevitable so long as Porto Rican sugars continue to be shipped here unsold, and especially so now that storage facilities are at a premium and demurrage rates sky bick. There is not much Caban sugar There is not much Caban sugar offering and, as a rule, the asking price is 5 3-8e C. & F., while refiners and operators appear to be willing to buy at 5 1-4c. The British commission is said to be still buying in a small way for June shipment at 4.75c to 4.80c F. O. B., but their wants for the present appear to be supplied. The probabilities are that purchases for that account will be very moderate, for the all important question of tonnage grows from day to day. With regard to the taxation for war purposes, it seems to be generally agreed that, for the time being at least, sugar will be left out of consideration.

Onban Weather Good

For the past week the weather in Cuba has been very favorable for harverting and the output is said to be satisfactory both as to tonnage and percentage of sucross

Figures for last week follow-six ports only:

Himely Guma -Tons Receipts 99,500 92,954 leans 25.000

Exports to Europe. . . 17,000 It is well to note that visible producion in Cuba to 28th April is 2,039,055 tons against 2,356,292 tons last year end 1,780,797 tous in 1915. It remains to be seen whether there is cane enough in the fields to enable the factories to the weather continues favorable. are quite skeptical on this point, be-cause, as we have already indicated, we believe the cane is much inferior in sucrose, and besides the months of highest sucrose content are past.

Since the foregoing was written the Ricos which have been on offer since yesterday at 6.14c C I. F., which appears to have cleaned up the market as nothing clee is now known to be press-

ing.

Refined sugar has been in moderate demand all of this week. The American are still quoting 7.50c basis and taking as little business as they can Howell is quoting but selling in a very limited way at 8c basis, while all the others are out of the market with their ideas for a basis around 8 1-2c to 8 3-4c.

DROUGHT WORRYING HAMAKUA PLANTERS

Lack of rain is bothering the plantations along the Hamakua coast and interfering with the growth of the 1918 erop. Up to the second week in May, the dry spell had lasted a month, making it the dryest spell for that period since 1897.

However, the crops look good, though the young cane is liable to receive a set-back.

Kokala district plantations are also experiencing difficulty for lack of suffi-cient water, though the drought there

is not so severe.

Both the Hamskua and the Kohala ditches are running much less than capacity,

JAMAICAN GOVERNMENT URGES SUGAR PLANTING

KINGSTON, Jamaica, April 25—The government has decided upon an extensive scheme of sugar development, in which the administration will be pledged for raising capital to establish central factories in Jamaica. The profits of the venture are to be shared by the government and the cane farmers. Janualea believes that imperial preference will be Britain's future policy.